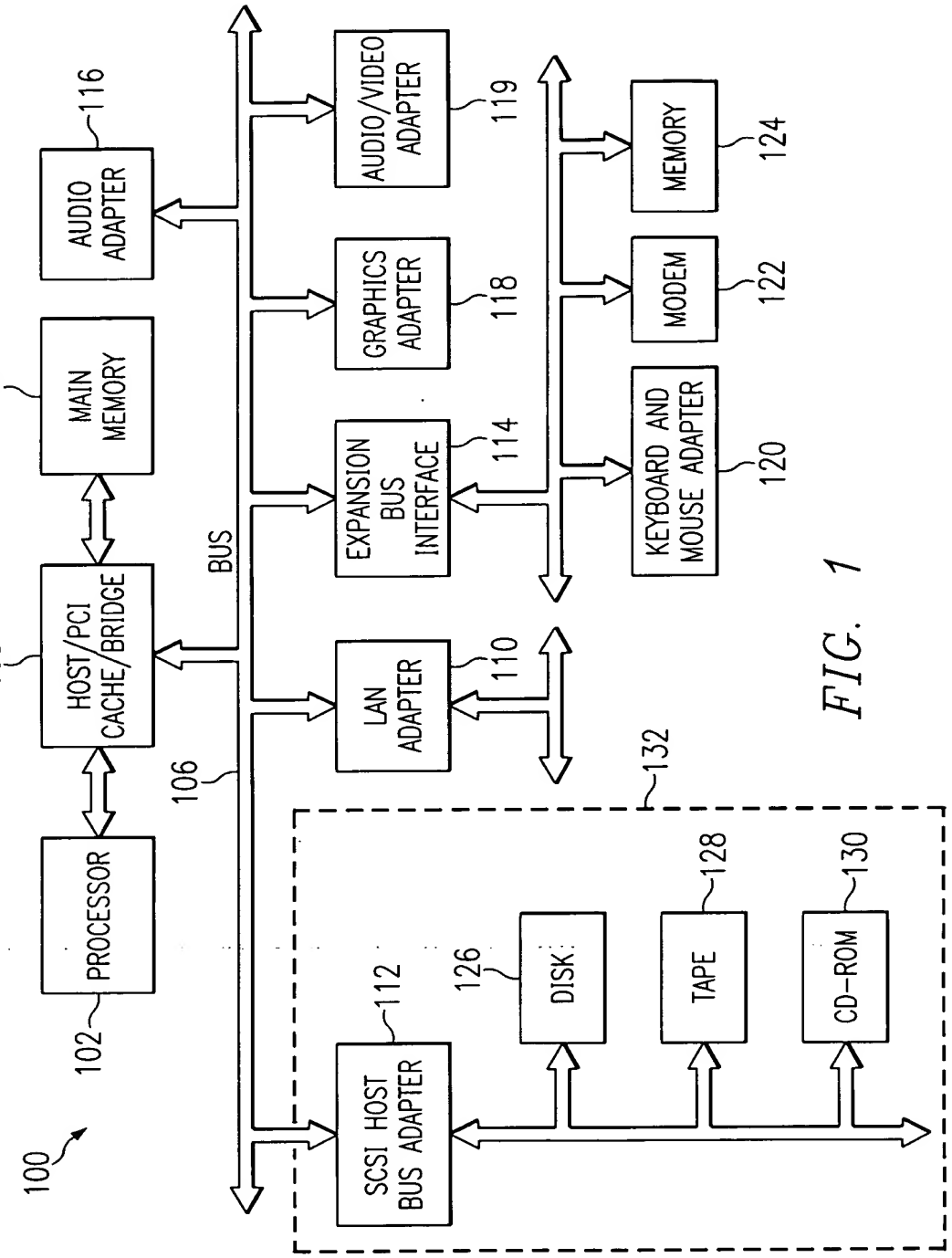

100
102
PROCESSOR
104
MAIN MEMORY
108
HOST/PCI CACHE/BRIDGE
106
BUS
AUDIO ADAPTER
116
AUDIO/VIDEO ADAPTER
119
GRAPHICS ADAPTER
118
EXPANSION BUS INTERFACE
114
LAN ADAPTER
110
MEMORY
124
MODEM
122
KEYBOARD AND MOUSE ADAPTER
120
132
SCSI HOST BUS ADAPTER
112
DISK
126
TAPE
128
CD-ROM
130

FIG. 1

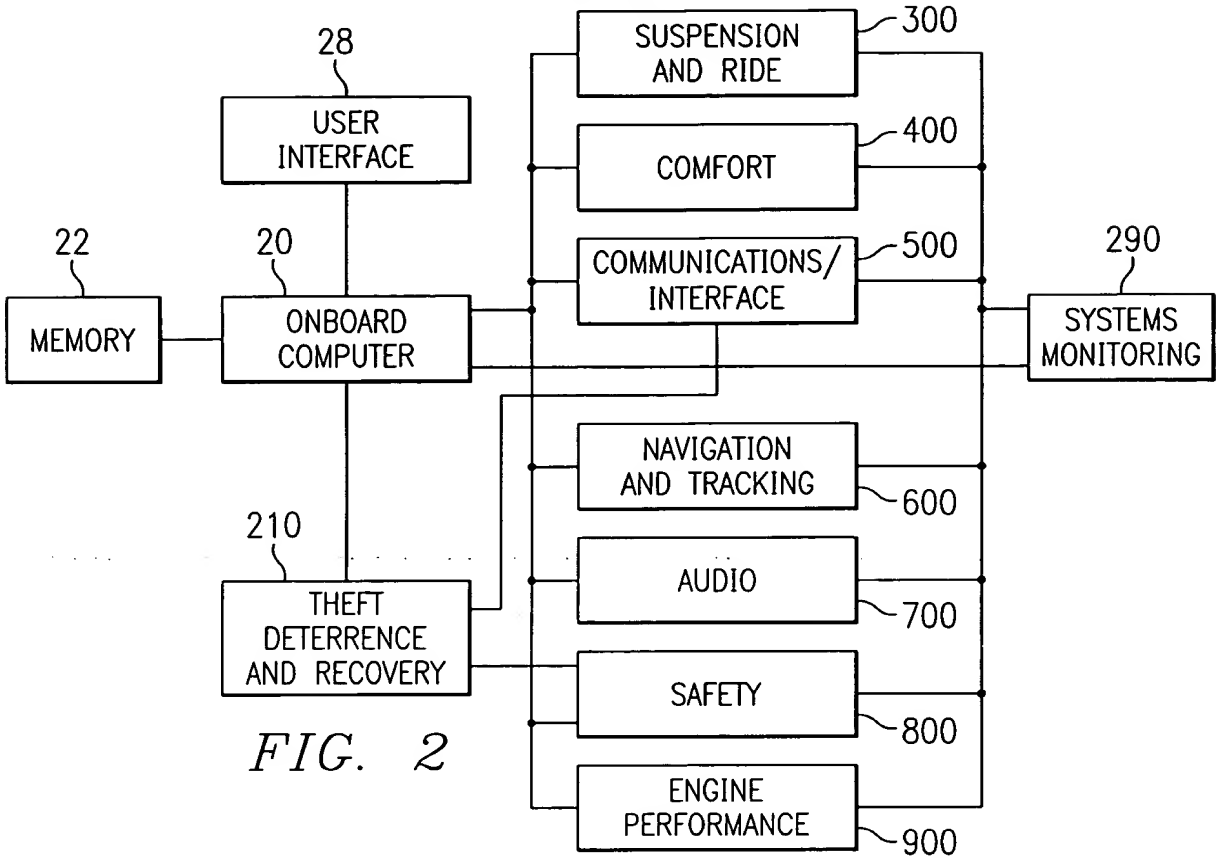


FIG. 2

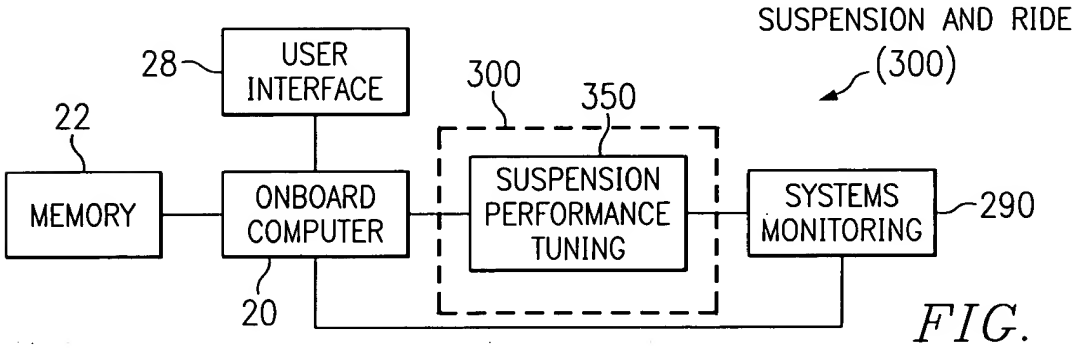


FIG. 3

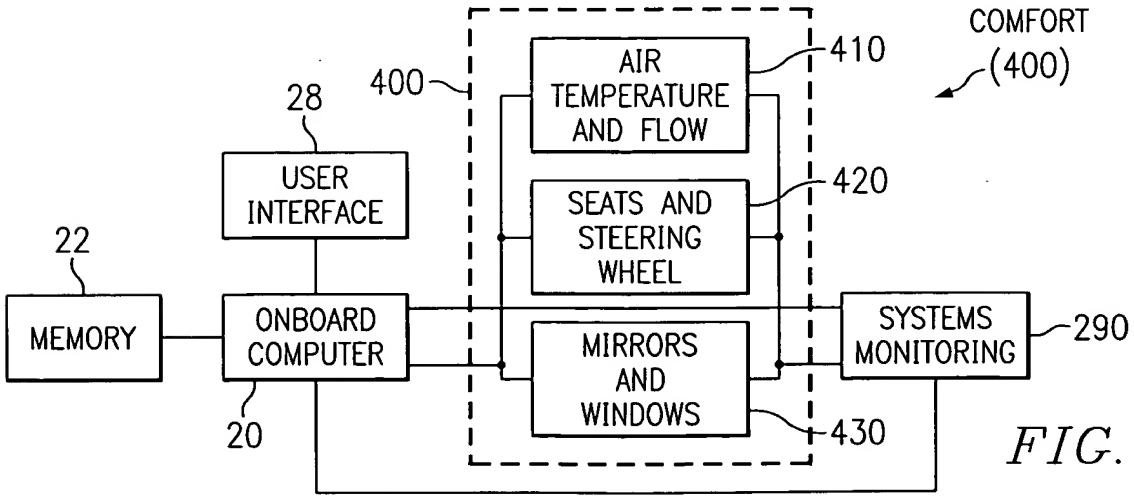


FIG. 4

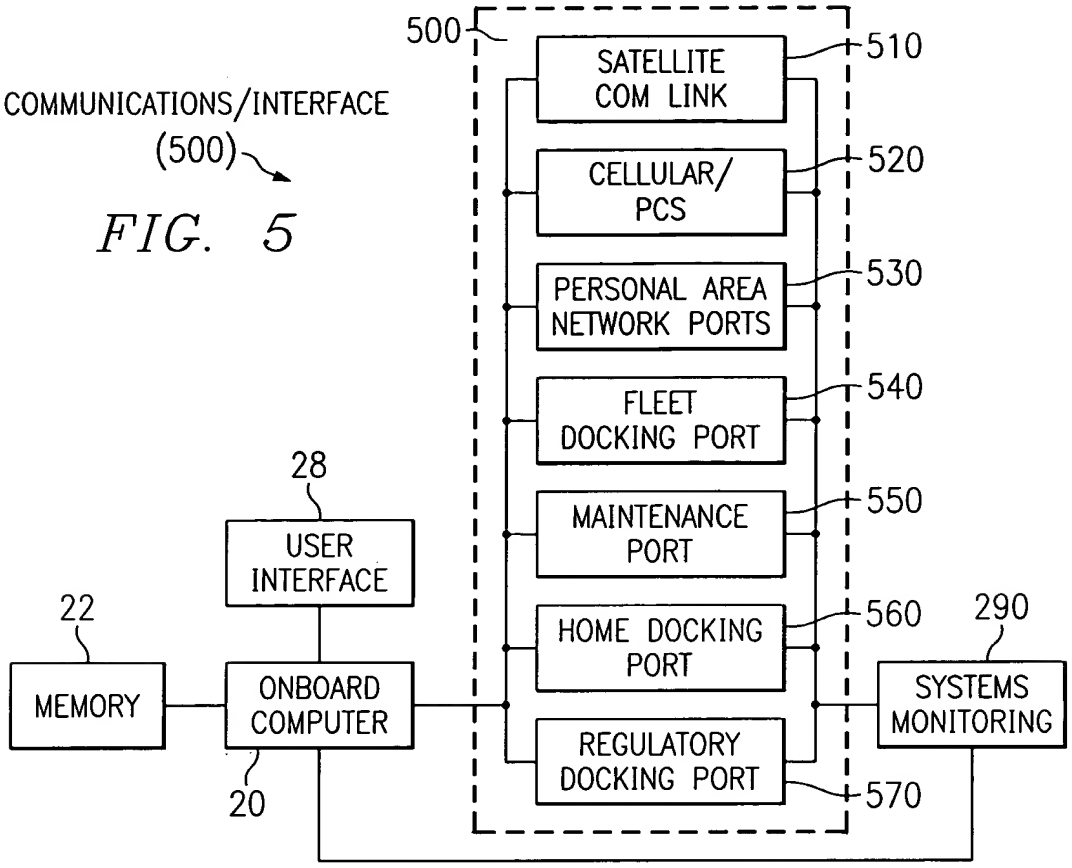

COMMUNICATIONS/INTERFACE
(500)
500
SATELLITE COM LINK
510
CELLULAR/ PCS
520
PERSONAL AREA NETWORK PORTS
530
FLEET DOCKING PORT
540
MAINTENANCE PORT
550
HOME DOCKING PORT
560
REGULATORY DOCKING PORT
570
28
USER INTERFACE
22
MEMORY
ONBOARD COMPUTER
20
290
SYSTEMS MONITORING

FIG. 5

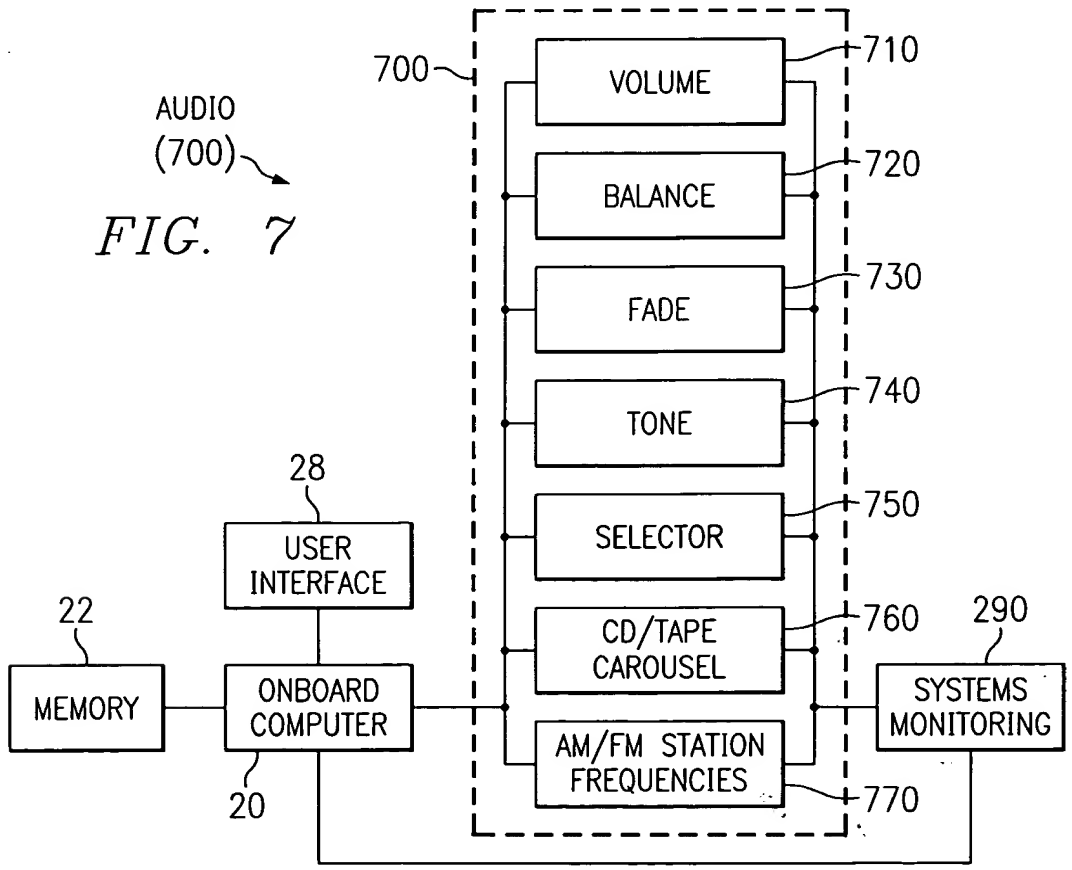

AUDIO
(700)
700
VOLUME
710
BALANCE
720
FADE
730
TONE
740
SELECTOR
750
CD/TAPE CAROUSEL
760
AM/FM STATION FREQUENCIES
770
28
USER INTERFACE
22
MEMORY
ONBOARD COMPUTER
20
290
SYSTEMS MONITORING

FIG. 7

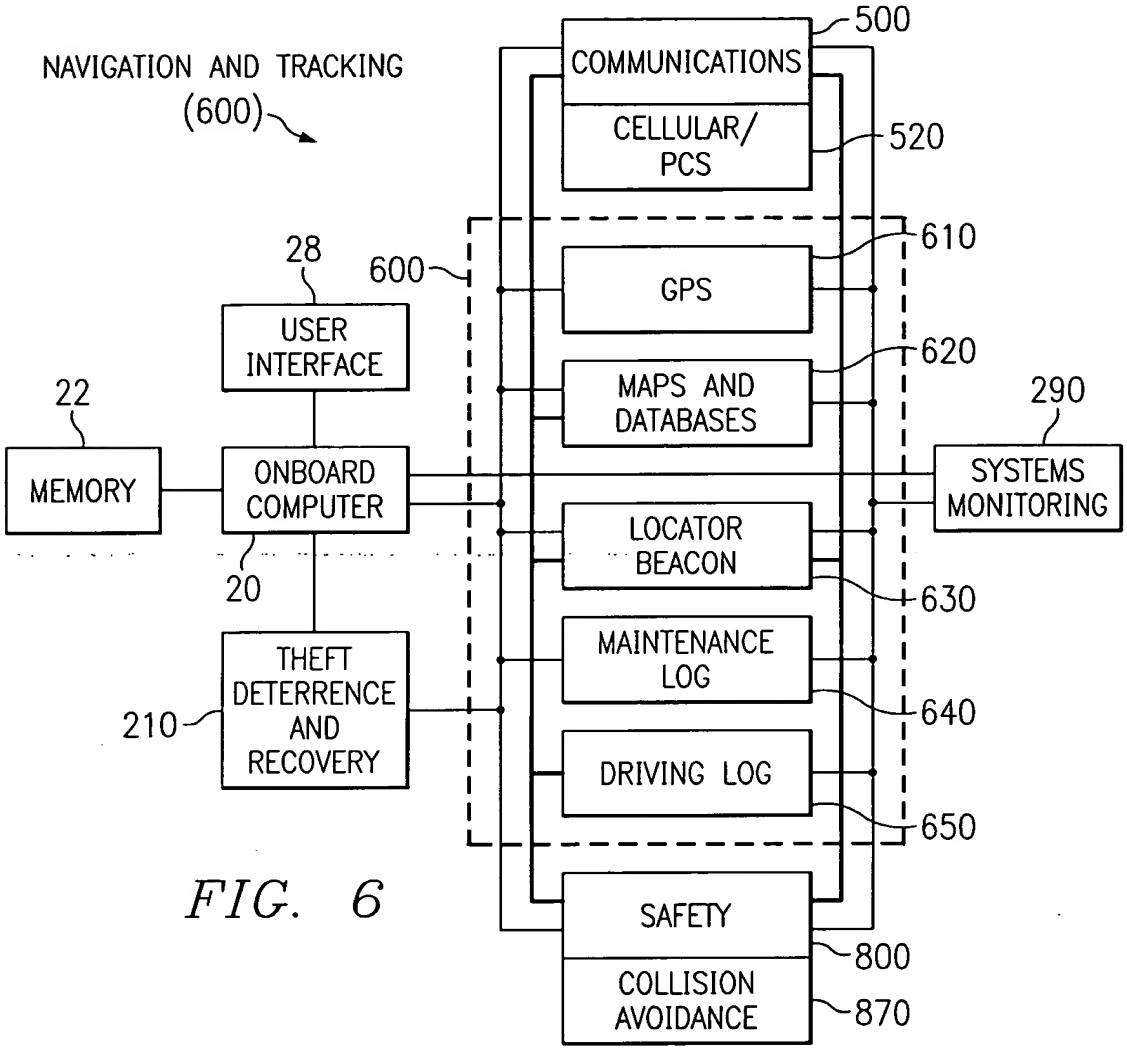


FIG. 6

USER RECORD
USER ID
VERIFICATION
SECURITY LEVEL
PREFERENCES
PREFERENCE LIMITS
USER LOGGED DATA

1400

FIG. 14

USER ID
NAME
NUMBER

1500

FIG. 15

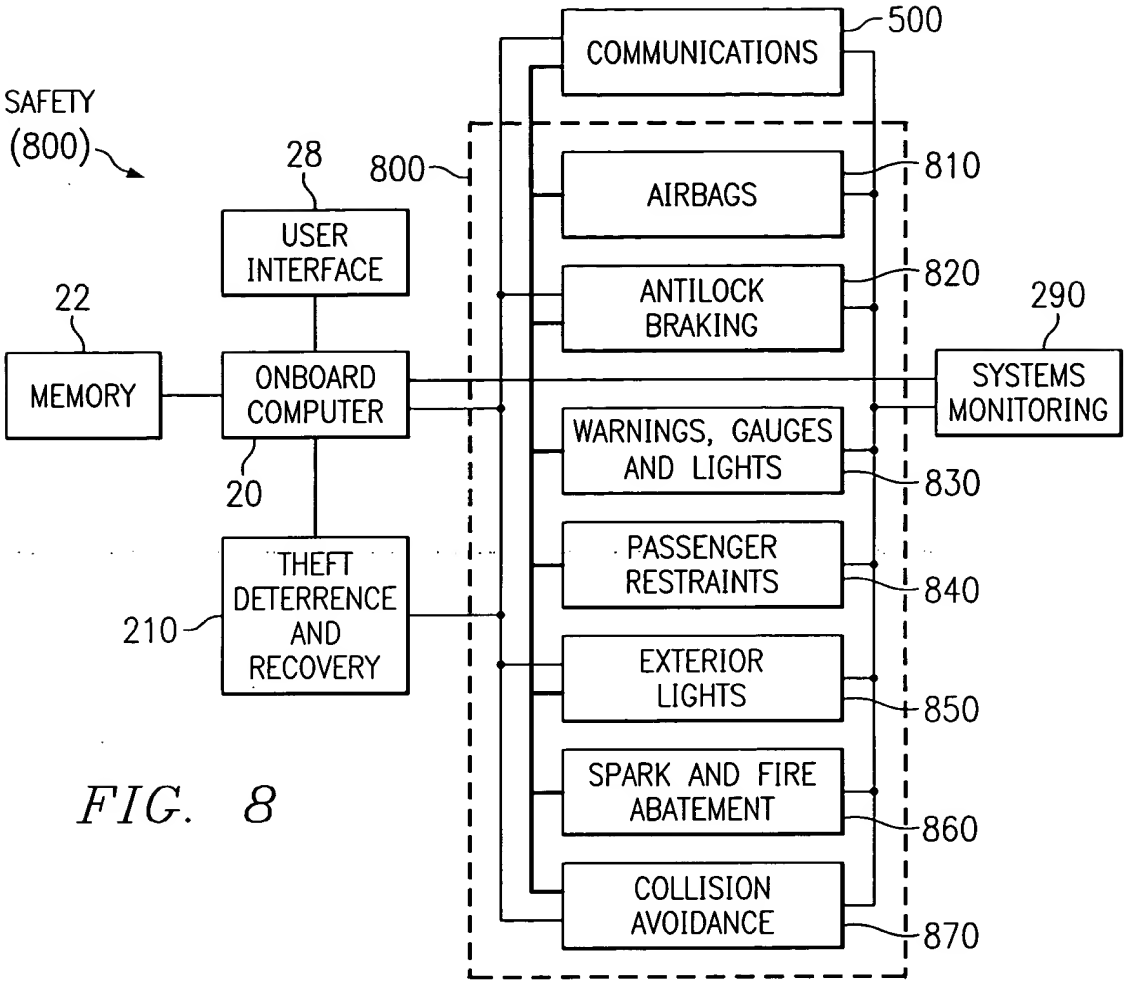


FIG. 8

1600

VERIFICATION
PASSWORD
ALGORITHMIC PASSWORD
SMARTCARD
FINGER PRINT
EYE PRINT
VOICE PRINT
BY PROXY VIA MASTER USER OR ADMINISTRATOR

FIG. 16

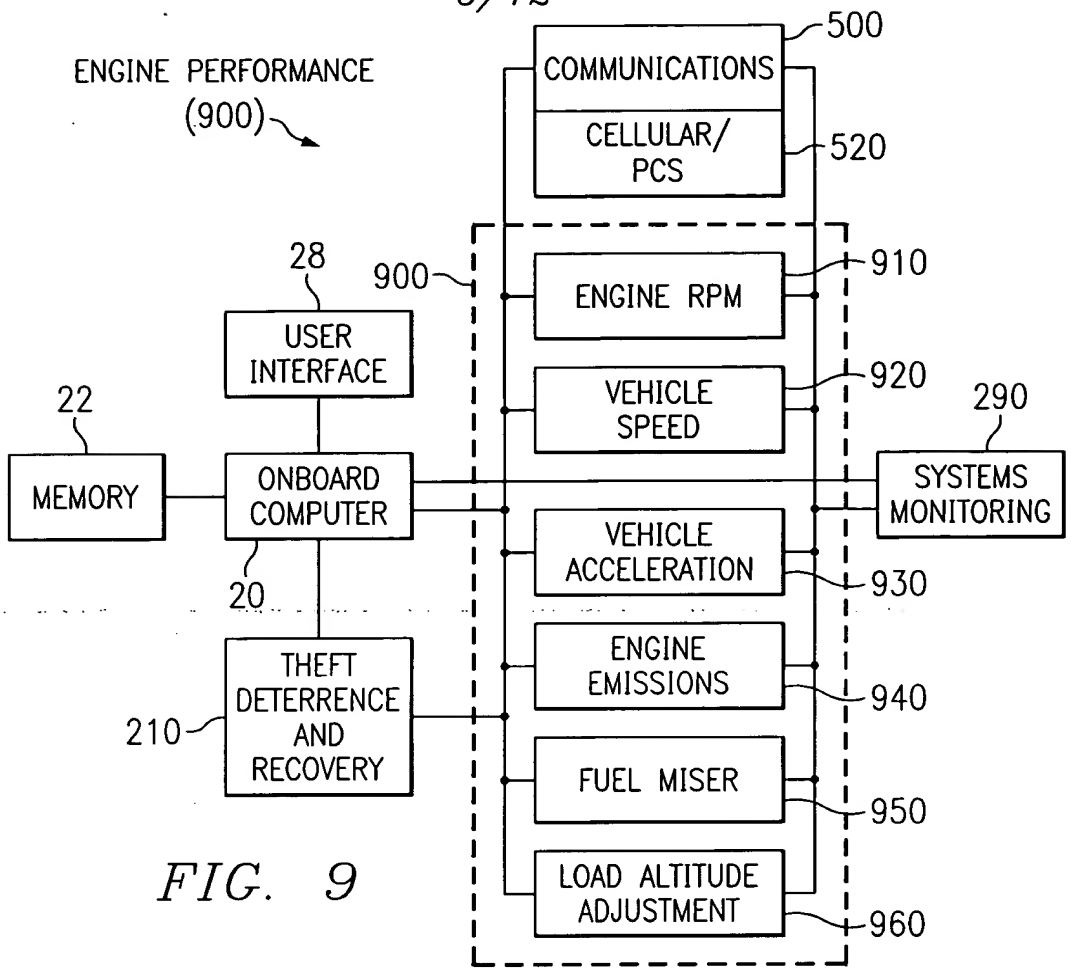


FIG. 9

1700

SECURITY LEVEL
NORMAL USER
MASTER
ADMINISTRATOR
SERVICE CENTER
PARKING ATTENDANT
SEMI-USER
THIEF
DRUNK DRIVER

FIG. 17

1800

PREFERENCES
SEAT ADJUSTMENTS
TEMPERATURE ADJUSTMENTS
RADIO/ENTERTAINMENT SYSTEM ADJUSTMENTS
TELEPHONE NUMBER SETTING
RIDE
ACCELERATION
WARNING MESSAGE PREFERENCE
AIRBAG SETTINGS

FIG. 18

FIG. 10

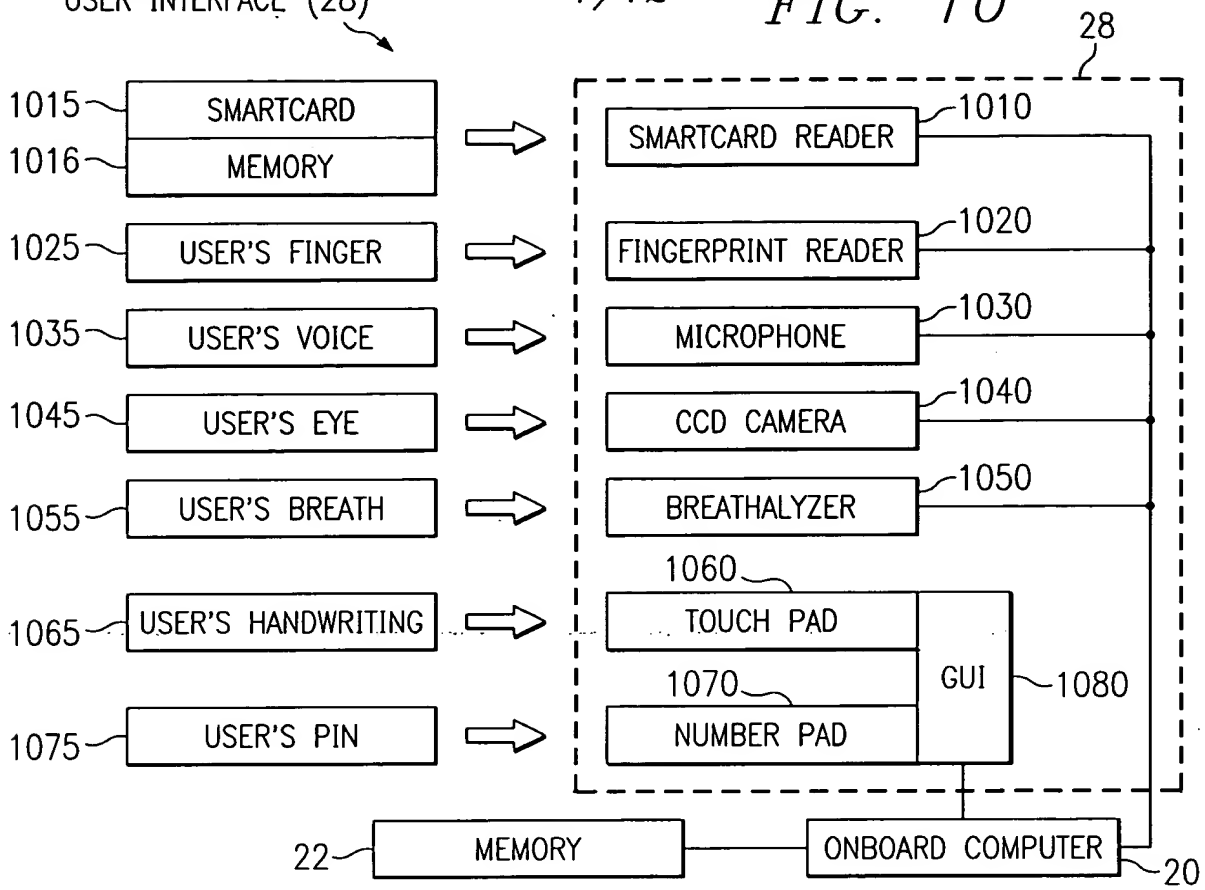
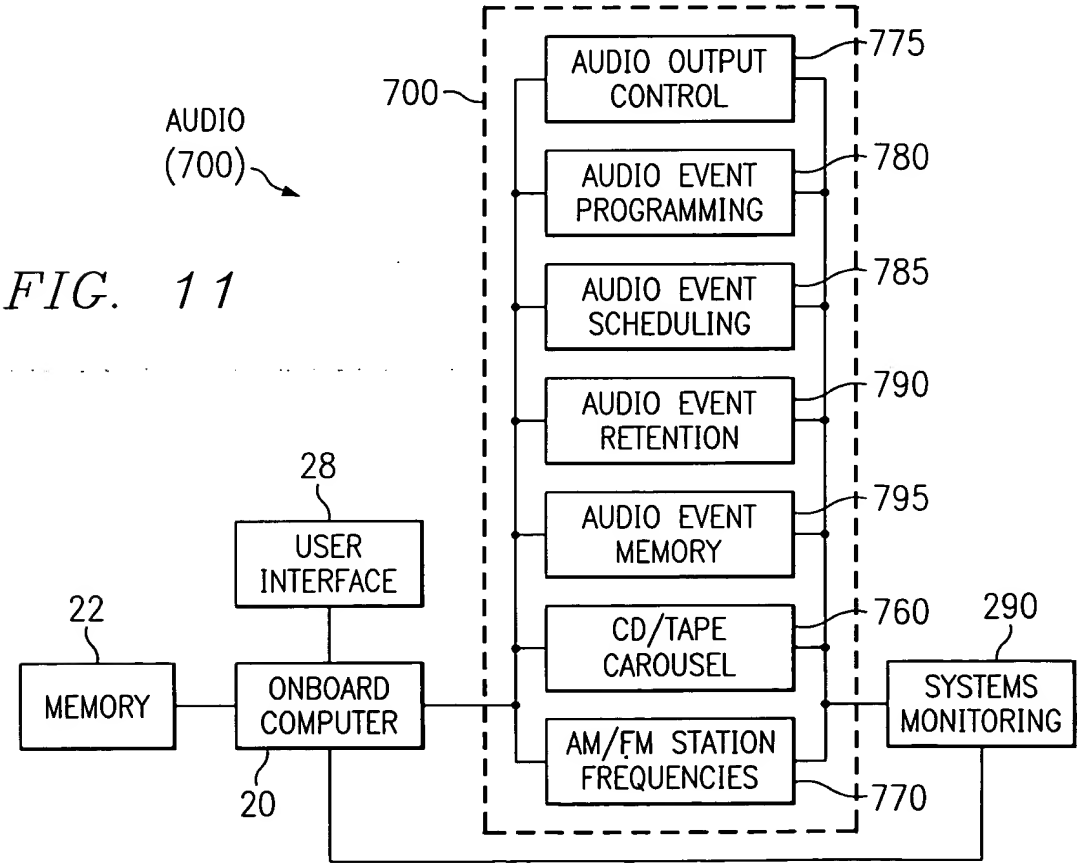

USER INTERFACE (28)
28
1015
SMARTCARD
1016
MEMORY
1025
USER'S FINGER
1035
USER'S VOICE
1045
USER'S EYE
1055
USER'S BREATH
1065
USER'S HANDWRITING
1075
USER'S PIN
SMARTCARD READER
1010
FINGERPRINT READER
1020
MICROPHONE
1030
CCD CAMERA
1040
BREATHALYZER
1050
1060
TOUCH PAD
1070
NUMBER PAD
GUI
1080
22
MEMORY
ONBOARD COMPUTER
20

FIG. 11


AUDIO
(700)
700
AUDIO OUTPUT CONTROL
775
AUDIO EVENT PROGRAMMING
780
AUDIO EVENT SCHEDULING
785
AUDIO EVENT RETENTION
790
AUDIO EVENT MEMORY
795
CD/TAPE CAROUSEL
760
AM/FM STATION FREQUENCIES
770
28
USER INTERFACE
22
MEMORY
ONBOARD COMPUTER
20
290
SYSTEMS MONITORING

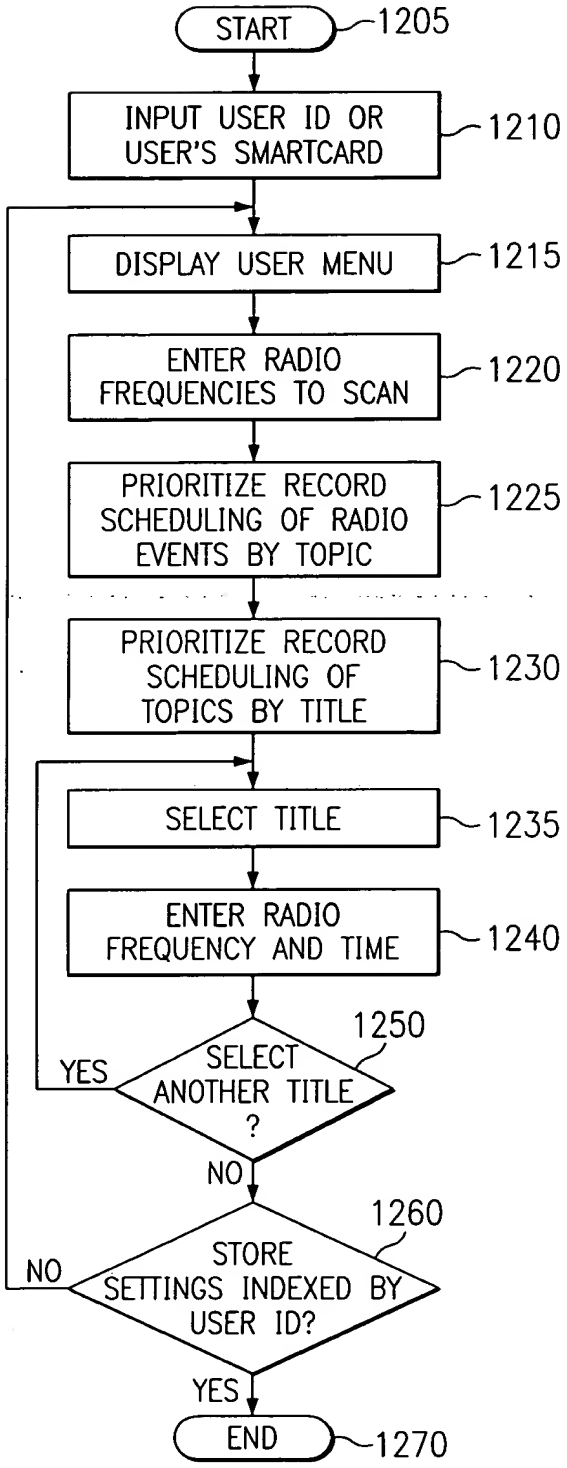


FIG. 12

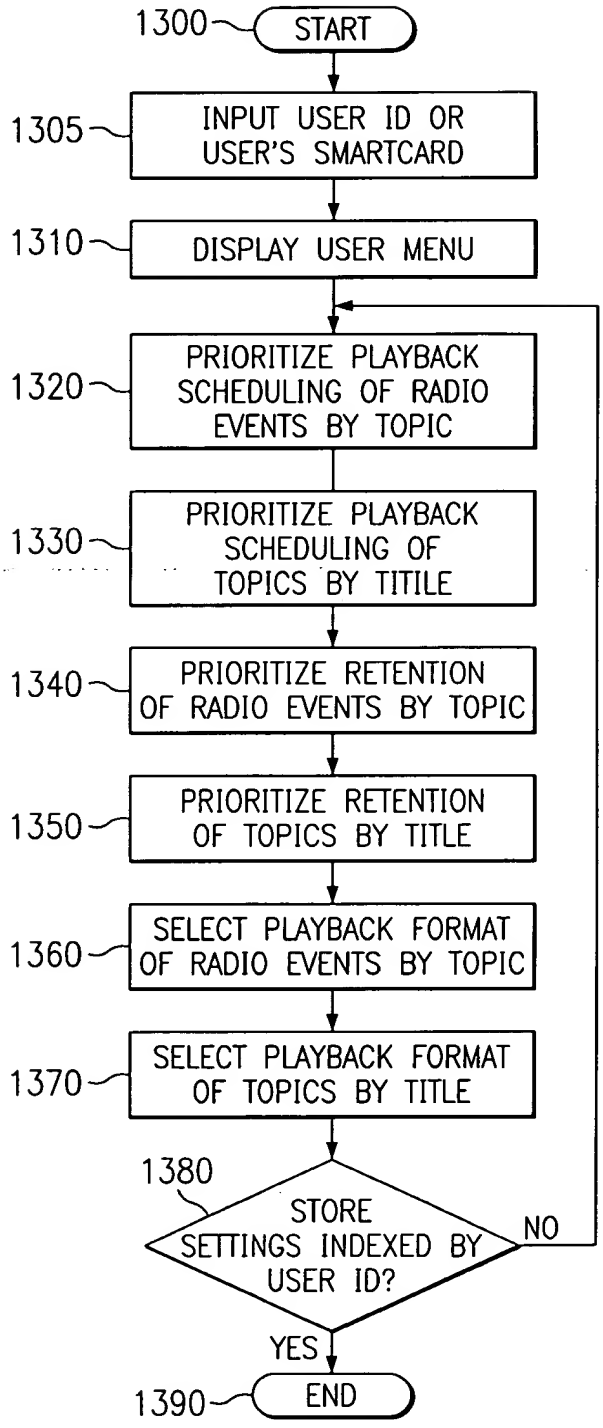


FIG. 13A

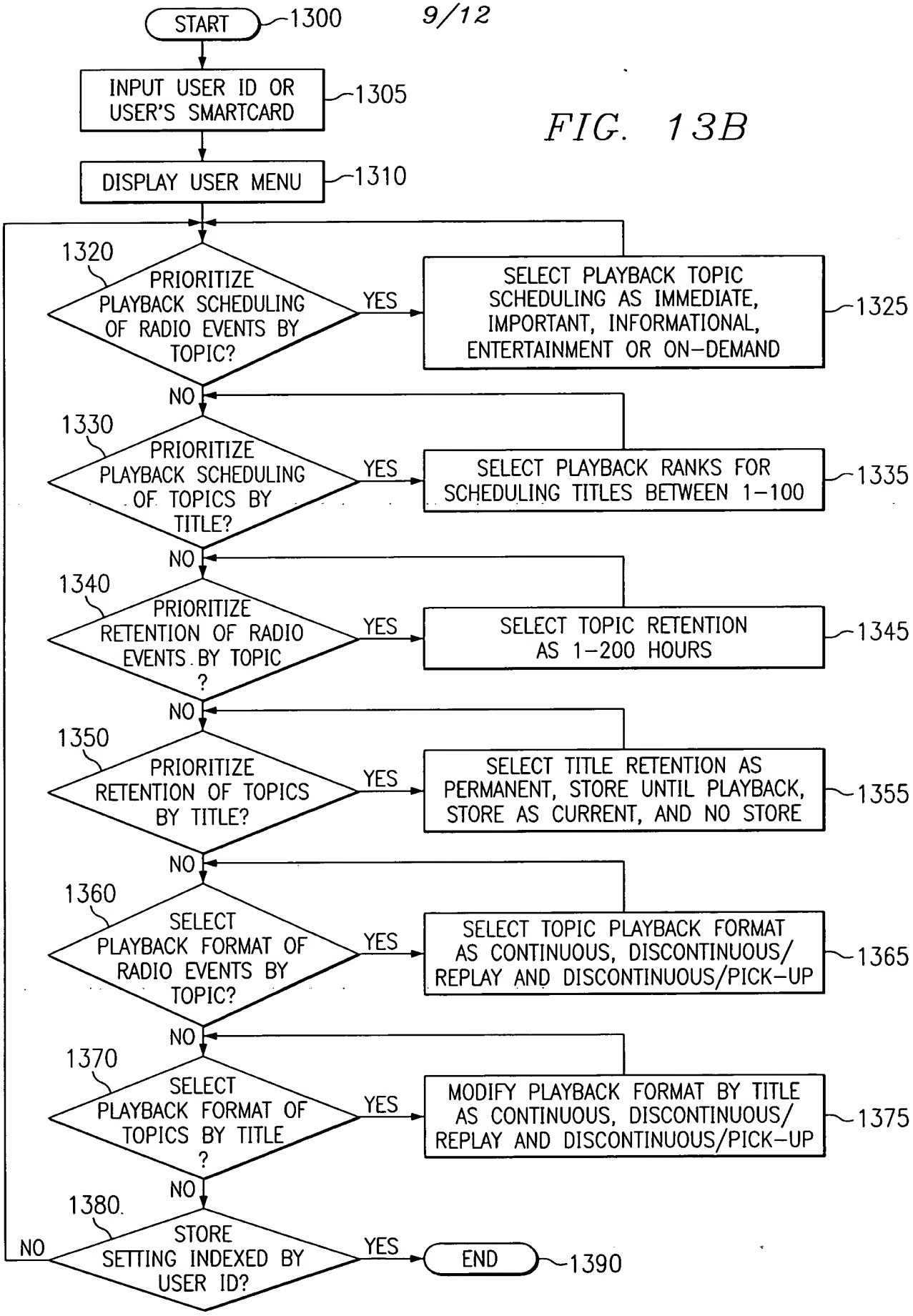

START
1300
INPUT USER ID OR USER'S SMARTCARD
1305
DISPLAY USER MENU
1310
1320
PRIORITIZE PLAYBACK SCHEDULING OF RADIO EVENTS BY TOPIC?
YES
SELECT PLAYBACK TOPIC SCHEDULING AS IMMEDIATE, IMPORTANT, INFORMATIONAL, ENTERTAINMENT OR ON-DEMAND
1325
NO
1330
PRIORITIZE PLAYBACK SCHEDULING OF TOPICS BY TITLE?
YES
SELECT PLAYBACK RANKS FOR SCHEDULING TITLES BETWEEN 1-100
1335
NO
1340
PRIORITIZE RETENTION OF RADIO EVENTS BY TOPIC ?
YES
SELECT TOPIC RETENTION AS 1-200 HOURS
1345
NO
1350
PRIORITIZE RETENTION OF TOPICS BY TITLE?
YES
SELECT TITLE RETENTION AS PERMANENT, STORE UNTIL PLAYBACK, STORE AS CURRENT, AND NO STORE
1355
NO
1360
SELECT PLAYBACK FORMAT OF RADIO EVENTS BY TOPIC?
YES
SELECT TOPIC PLAYBACK FORMAT AS CONTINUOUS, DISCONTINUOUS/ REPLAY AND DISCONTINUOUS/PICK-UP
1365
NO
1370
SELECT PLAYBACK FORMAT OF TOPICS BY TITLE ?
YES
MODIFY PLAYBACK FORMAT BY TITLE AS CONTINUOUS, DISCONTINUOUS/ REPLAY AND DISCONTINUOUS/PICK-UP
1375
NO
1380
STORE SETTING INDEXED BY USER ID?
NO
YES
END
1390

FIG. 13B

1900

PREFERENCE LIMITS
MAXIMUM ENGINE RPMs
MAXIMUM FORWARD ACCELERATION
MAXIMUM SPEED
MAXIMUM RIDE STIFFNESS
MAXIMUM DISTANCE FROM HOME PORT
MAXIMUM DISTANCE FROM STORED ROUTES
MAXIMUM DISTANCE FROM STORED DESTINATION
CASH ACCOUNT BALANCE FOR FUEL
CASH LIMIT FOR FUEL PER UNIT OF TIME
CASH ACCOUNT BALANCE FOR MAINTENANCE
NIGHT DRIVING LIMITS
HOURS OF OPERATION LIMITS
SOBRIETY TEST REQUIREMENT
THEFT RESPONSE
SEATBELT RESTRICTIONS
AIRBAG SETTINGS
CASH ACCOUNT BALANCE FOR SERVICES
MAXIMUM AUDIO SOUND LEVEL
ANTILOCK BRAKE SETTINGS
TRACTION CONTROL SETTINGS

FIG. 19

2000

USER LOGGED DATA
HOURS OF ENGINE TIME
HOURS LOGGED IN
MILES TRAVELED
CASH CONSUMED
AVERAGE MPG
MAXIMUM SPEED
AVERAGE SPEED
MAXIMUM ACCELERATION
MAXIMUM ENGINE RPM
ANTILOCK BRAKE ENGAGEMENT
TRACTION CONTROL ENGAGEMENT
AIRBAG DEPLOYMENT
MAXIMUM DISTANCE FROM HOME
MAXIMUM DISTANCE FROM ROUTE
MAXIMUM DISTANCE FROM DESTINATION
GPS TRIP TRACKING
SERVICES USED

FIG. 20

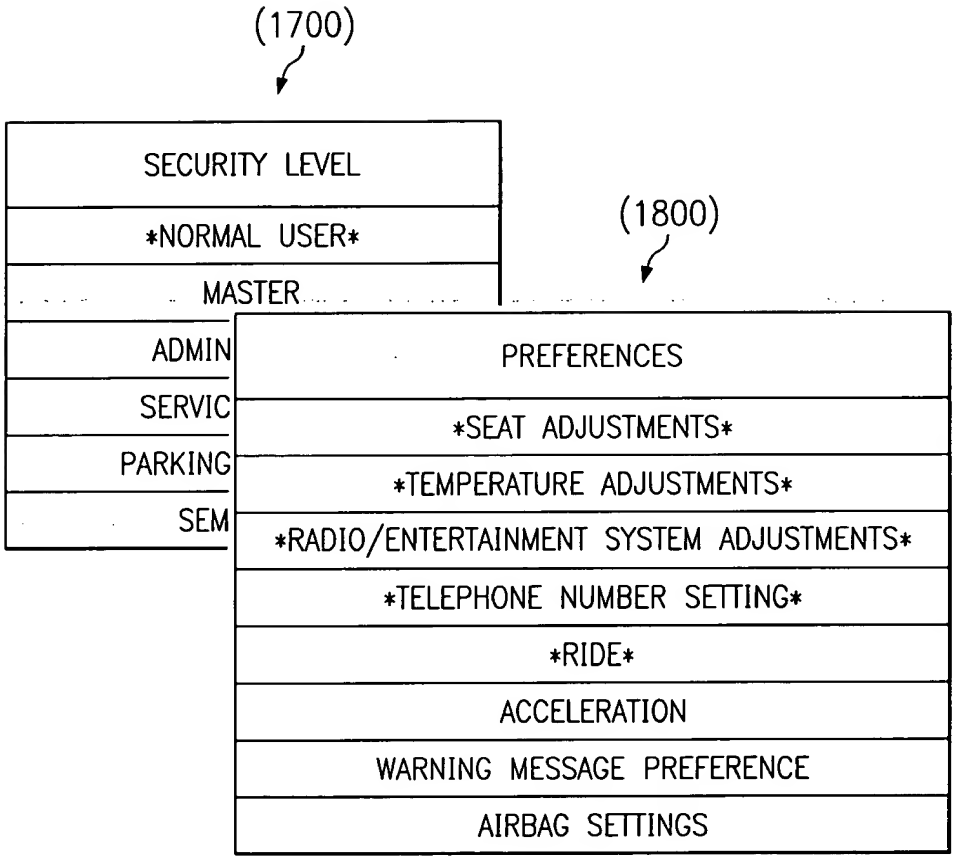

(1700)
SECURITY LEVEL
NORMAL USER
MASTER
ADMIN
SERVIC
PARKING
SEM
(1800)
PREFERENCES
SEAT ADJUSTMENTS
TEMPERATURE ADJUSTMENTS
RADIO/ENTERTAINMENT SYSTEM ADJUSTMENTS
TELEPHONE NUMBER SETTING
RIDE
ACCELERATION
WARNING MESSAGE PREFERENCE
AIRBAG SETTINGS

FIG. 21

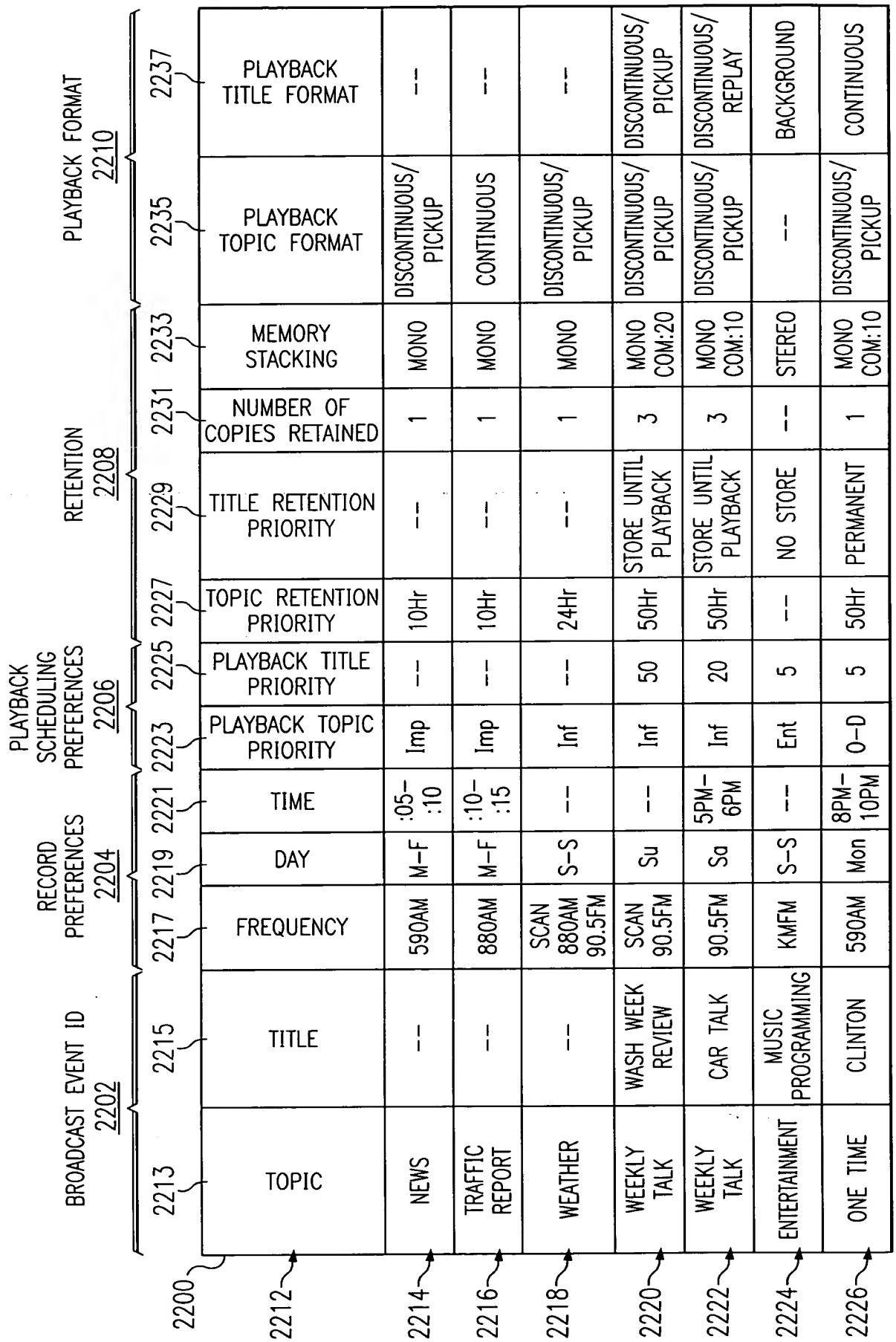

BROADCAST EVENT ID 2202
RECORD PREFERENCES 2204
PLAYBACK SCHEDULING PREFERENCES 2206
RETENTION 2208
PLAYBACK FORMAT 2210
2200
2212
2213 TOPIC
2215 TITLE
2217 FREQUENCY
2219 DAY
2221 TIME
2223 PLAYBACK TOPIC PRIORITY
2225 PLAYBACK TITLE PRIORITY
2227 TOPIC RETENTION PRIORITY
2229 TITLE RETENTION PRIORITY
2231 NUMBER OF COPIES RETAINED
2233 MEMORY STACKING
2235 PLAYBACK TOPIC FORMAT
2237 PLAYBACK TITLE FORMAT
2214 NEWS -- 590AM M-F :05-:10 Imp -- 10Hr -- -- -- DISCONTINUOUS/PICKUP --
2216 TRAFFIC REPORT -- 880AM M-F :10-:15 Imp -- 10Hr -- -- -- CONTINUOUS --
2218 WEATHER -- SCAN 880AM 90.5FM S-S -- Inf -- 24Hr -- -- -- DISCONTINUOUS/PICKUP --
2220 WEEKLY TALK WASH WEEK REVIEW SCAN 90.5FM Su -- Inf 50 50Hr STORE UNTIL PLAYBACK 3 MONO COM:20 DISCONTINUOUS/PICKUP DISCONTINUOUS/PICKUP
2222 WEEKLY TALK CAR TALK 90.5FM Sa 5PM-6PM Inf 20 50Hr STORE UNTIL PLAYBACK 3 MONO COM:10 DISCONTINUOUS/PICKUP DISCONTINUOUS/REPLAY
2224 ENTERTAINMENT MUSIC PROGRAMMING KMFM S-S -- Ent 5 -- NO STORE -- STEREO -- BACKGROUND
2226 ONE TIME CLINTON 590AM Mon 8PM-10PM O-D 5 50Hr PERMANENT 1 MONO COM:10 DISCONTINUOUS/PICKUP CONTINUOUS

FIG. 22